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MONTANA OIL AND GAS STATISTICAL BULLETIN

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OIL AND GAS CONSERVATION COMMISSION
SAVINGS BLDG.

HELENA, MONTANA

Vol. XVIII, No. 11 November, 1970

Production of crude oil and condensate from the oil and gas areas of Montana for the month of November, 1970 averaged 101,506 barrels daily, a decrease of 671 barrels from the average October, 1970 production of 102,177.

The nine refineries in the state processed 120,128 barrels of crude oil daily for the month of November, 1970, a decrease of 4,954 barrels from the 125,082 barrels processed daily during the month of October, 1970.

During November 44 wells were completed, 3 oil, 4 gas and 37 dry holes.

During November the commission issued 29 permits to drill new wells, a decrease of 25 from the 54 permits issued during October.

SUMMARY OF CRUDE OIL PRODUCTION REFINING, STORAGE, ETC., IN MONTANA MONTH OF NOVEMBER, 1970

IN STORAGE NOVEMBER 1st	
By Producers	323,301
By Transporters	1,259,338
By Refiners	832,811
TOTAL STORAGE	2,415,450
Produced in Montana During Month	3,045,186
Imported During Month	2,787,581
TOTALS	8,248,217
DISPOSITION:	
Refined in Montana	3,603,860
Exported	1,948,349
Used for Fuel or Lost	11,139
TOTAL	5,563,348
IN STORAGE NOVEMBER 30th	
By Producers	341,065
By Transporters	1,373,090
By Refiners	970,714
TOTAL STORAGE	2,684,869

NATURAL GAS WITHDRAWALS IN MONTANA

Month of November, 1970

Field	M. Cu. Ft.
Bell Creek	345,628
Big Coulee	111,398
Blackjack	74,549
Bowdoin	219,260
Bowes	11,113
Cabin Creek	107,034
Cedar Creek	417,786
Cut Bank (Including Reagan)	604,143
Devon	0
Dry Creek	55,809
Elk Basin	85,291
Flat Coulee	23,557
Gold Butte	3,904
Grandview	31,688
Hardin	2,768
Keith Block	179,804
Kevin Sunburst	63,481
Lake Basin	94,709
Middle Butte	4,219
Mt. Lilly	42,233
Pine	51,601
Plevna	7,868
Squaw Coulee	65,762
Tiger Ridge	41,325
Utopia	63,245
Whitlash	132,688
Miscellaneous	278,913
TOTAL	3,119,776

Total withdrawals for November 1969 were 3,483,464.

PRODUCERS REPORT — MONTH OF NOVEMBER, 1970

Leases	Field	No. of Wells	Storage 1st of Month	Oil Produced	Oil Shipped By Pipeline	Oil Shipped By Truck	Used or Lost	Storage End of Month
3	Ash Creek	3	96	2,094	—	2,161	—	29
1	Bainville	1	2,933	5,852	—	5,762	—	3,023
—	Bannatyne	—	573	—	—	—	—	573
—	Bascom	—	165	—	—	—	—	165
5	Bear's Den	7	1,133	412	—	—	—	1,545
53	Bell Creek	363	43,271	540,855	539,505	—	1,629	42,992
—	Benrud	—	120	—	—	—	—	120
2	Benrud East	2	943	13,565	12,572	—	—	1,936
1	Benrud Northeast	1	604	2,872	2,406	—	—	1,070
1	Berthelote	1	267	245	214	—	35	263
6	Big Wall	17	1,760	10,401	9,656	—	—	2,505
4	Blackfoot	6	1,130	1,704	1,524	—	—	1,310
4	Border	4	539	872	596	356	—	459
1	Bowes	58	6,300	12,333	12,356	—	—	6,277
1	Bradley	1	207	600	210	—	—	597
—	Brady	—	324	—	—	—	—	324
4	Brorson-Madison	4	1,133	4,952	—	4,999	—	1,086
6	Brorson-Red River	6	5,673	18,277	—	19,023	—	4,927
3	Brorson-Red River South	3	1,120	8,775	—	8,686	—	1,209
5	Brush Lake	5	389	20,973	20,634	—	—	728
2	Cabin Creek	98	—	314,512	314,512	—	—	—
1	Canal	1	1,473	18,413	—	18,839	—	1,052
13	Cat Creek	64	2,287	13,256	10,121	1,789	—	3,633
1	Clark's Fork	1	127	115	—	186	—	56
—	Clark's Fork South	—	76	—	—	—	—	76
2	Conrad South	2	173	409	409	—	—	173
1	Cow Creek	1	487	3,640	—	4,003	—	124
1	Culbertson	1	548	2,341	—	2,373	253	263
2	Cupton	2	1,580	1,031	—	750	—	1,861
142	Cut Bank	872	56,546	484,125	481,512	—	490	58,669
—	Dean Dome	—	65	—	—	—	—	65
2	Deer Creek	2	351	1,772	1,389	—	—	734
1	Delphia	1	151	528	—	406	—	273
—	Devil's Basin	—	671	—	—	—	—	671
2	Dwyer	14	3,950	26,965	26,708	—	—	4,207
3	Elk Basin	50	898	163,398	163,259	—	—	1,037
5	Elk Basin Northwest	9	8,285	9,152	8,443	—	—	8,994
6	Fairview	10	8,836	49,231	46,864	—	1,067	10,136
2	Fertile Prairie	2	627	1,311	—	977	—	961
9	Flat Coulee	28	4,336	8,656	8,231	—	—	4,761
48	Flat Lake	65	6,012	65,953	65,708	—	133	6,124
3	Flat Lake South	3	901	4,967	4,827	—	—	1,041
1	Frannie	1	—	600	600	—	—	—
13	Fred & George Creek	37	1,991	34,854	34,943	—	—	1,902
—	Gage	—	129	—	—	98	—	31
3	Gas City	17	4,236	29,526	23,786	5,714	—	4,262
2	Girard	2	1,178	4,756	—	5,114	—	820
11	Glendive	15	3,330	29,192	24,406	5,220	—	2,896
28	Goose Lake	34	6,873	40,200	39,953	—	—	7,120
7	Graben Coulee	16	5,085	3,473	815	2,043	—	5,700
3	Gypsy Basin	3	749	—	749	—	—	—
2	Hay Creek	2	728	10,920	11,269	—	—	379
6	Hiawatha	6	2,710	9,436	9,416	—	—	2,730
1	Hibbard	1	399	254	—	205	—	448
—	Injun Creek	—	930	—	—	—	—	930
6	Ivanhoe	12	1,493	6,463	4,788	—	—	3,168
7	Keg Coulee	17	4,688	15,621	16,349	—	—	3,960
2	Keg Coulee North	2	350	635	442	—	—	543
1	Kelley	5	817	3,939	4,105	—	—	651
60	Kevin Sunburst	301	9,426	22,414	19,427	2,828	266	9,319
8	Laird Creek	10	942	4,476	—	4,800	7	611
2	Leary	2	1,569	1,047	—	1,224	—	1,392
1	Little Beaver	23	—	29,218	29,218	—	—	—
2	Little Beaver East*	13	1,525	14,646	13,500	—	—	2,671
2	Lodge Grass	2	635	1,559	—	458	—	1,736
3	Lookout Butte (Coral Creek)	31	820	74,561	74,286	—	—	1,095
—	Mackay Dome	—	1,134	—	—	—	—	1,134
2	Mason Lake	2	217	758	335	—	—	640
3	Melstone	4	993	1,878	1,768	—	—	1,103
1	Mineral Bench	1	536	899	886	—	—	549
1	Miner's Coulee	1	107	507	—	507	—	107
11	Monarch	14	4,367	17,403	13,515	4,643	—	3,612
3	Mosser	3	—	567	—	567	—	—
6	Outlook	9	7,026	14,839	15,796	—	—	6,069
1	Outlook South	1	378	1,263	867	—	—	774
2	Outlook West	2	982	3,398	3,562	—	—	818
1	Pennel-Lookout Butte	112	—	132,041	132,041	—	—	—
4	Pine	115	16,981	264,501	263,999	—	—	17,483
—	Pole Creek	—	78	—	—	—	—	78
63	Pondera	268	6,548	24,754	24,145	—	—	7,157
7	Poplar	66	7,649	52,646	49,774	—	72	10,449
3	Poplar Northwest	3	1,627	1,950	2,004	—	—	1,573
1	Prairie Elk	1	346	825	825	—	—	346
3	Pritchard Creek	3	167	1,517	1,517	—	—	167
4	Ragged Point	12	2,741	5,659	5,631	—	—	2,769
2	Rattlesnake Coulee	2	517	520	606	—	—	431
2	Reagan	48	466	19,581	19,502	—	—	545
1	Red Creek	21	—	16,136	16,136	—	—	—
1	Red Fox	1	183	851	883	—	—	151
1	Redstone	1	438	3,220	3,313	—	—	345
1	Repeat	1	266	1,824	—	1,810	—	280
5	Reserve	5	—	10,736	10,736	—	—	—
1	Richey	1	411	596	872	—	—	135
1	Richey Southwest	6	295	3,441	—	3,535	—	201
—	Rough Creek	—	266	—	—	—	—	266
1	Rush Mountain	1	367	2,667	2,529	—	—	505
7	Sand Creek	9	4,122	7,794	8,031	—	—	3,885
1	Shotgun Creek	1	336	472	—	494	—	314
1	Sidney	1	300	450	—	450	—	300
1	Snyder	4	229	851	—	346	—	734
6	Soap Creek	16	2,448	3,469	—	3,093	—	2,824
1	Spring Lake	2	1,365	2,648	—	2,050	—	1,963
1	Stensvad	5	2,843	23,998	22,283	—	—	4,558
5	Sumatra	23	8,731	48,902	48,121	—	—	9,512
5	Tule Creek	6	3,079	31,266	—	31,018	—	3,327
2	Tule Creek East	2	585	9,215	—	8,896	—	904
2	Tule Creek South	3	972	3,429	—	3,540	22	839
2	Vida	2	816	1,130	—	1,565	—	381
4	Volt	4	1,908	12,633	12,289	—	—	2,252
2	Weed Creek	3	375	2,809	2,779	—	6	399
3	Weldon	7	1,186	21,700	21,712	—	—	1,174
1	West Butte	1	—	2,307	—	2,307	—	—
17	Whitlash	44	6,837	11,413	9,738	—	—	8,512
1	Whitlash West	1	418	185	217	—	—	386
2	Wills Creek South	2	—	3,687	3,687	—	—	—
6	Wolf Springs	8	3,252	5,476	6,106	—	—	2,622
2	Woodrow	2	406	2,454	2,702	—	—	158
3	Wright Creek	5	2,098	2,786	3,387	—	—	1,497
1	Wildcat, Blaine Cty	1	238	113	—	—	—	351
—	Wildcat, Carbon Cty	—	310	—	—	—	—	310
1	Wildcat, Daniels Cty	1	199	726	—	896	—	29
1	Wildcat, Fallon Cty	4	1,211	11,291	—	12,067	—	435
2	Wildcat, Glacier Cty	3	1,225	1,000	825	—	—	1,400
1	Wildcat, Liberty Cty	1	198	41	—	—	—	239
3	Wildcat, Musselshell Cty	3	651	10,226	—	9,288	—	1,589
7	Wildcat, Richland Cty	7	3,005	79,090	—	79,265	—	2,830
1	Wildcat, Roosevelt Cty	1	705	4,623	—	4,598	—	730
1	Wildcat, Sheridan Cty	1	499	1,096	—	1,084	—	511
2	Wildcat, Toole Cty	2	—	582	—	582	—	—
744	Total	3,139	323,301	3,045,186	2,752,827	270,615	3,980	341,065

Total Oil Produced & Shipped From Leases

	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1969	43,954,112	120,422	44,000,549	120,549
1st Quarter, 1970	9,744,920	108,306	9,724,779	108,062
2nd Quarter, 1970	9,446,320	103,806	9,442,315	103,542
3rd Quarter, 1970	9,339,576	101,517	9,120,597	99,137
October, 1970	3,167,479	102,177	3,175,297	102,429
November, 1970	3,045,186	101,506	3,023,442	100,781

Oil In Storage	In Producers Field Tank	In Transporters Storage	In Refiners Storage‡	Total Oil In Storage‡
December, 1969	351,210	1,237,355	731,177	2,319,742
March, 1970	362,487	1,382,147	387,559	2,132,193
June, 1970	374,566	1,704,027	1,084,703	3,163,296
September, 1970	334,184	1,244,899	808,007	2,387,090
October, 1970	323,301	1,259,338	832,811	2,415,450
November, 1970	341,065	1,373,090	970,714	2,684,869

*Montana Oil Only. ‡Includes Wyoming Oil.

TRANSPORTERS REPORT — MONTH OF NOVEMBER, 1970

	Storage First of Month	OIL RECEIVED BY			Loss or (Gain)	OIL SHIPPED TO			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Truck			2,161				2,161		
BAINVILLE—									
Rock Island Oil & Ref. Co.			5,762				5,762		
BELL CREEK—Pipeline	57,081	539,505					279,713	250,063	66,810
BIG WALL—									
Continental Pipeline Co.		9,609				9,609			
BLACKFOOT—									
Camerland Cardinal Corp.		1,524						1,524	
BORDER—Permian Corp.			356					356	
BOWES—Texaco Inc.		12,356				12,356			
BRORSON-MADISON—									
Rock Island Oil & Ref. Co.			4,999					4,999	
BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			27,709					27,709	
BRUSH LAKE—Portal Pipeline Co.		20,634					20,634		
CABIN CREEK & OTHERS—*									
Butte Pipeline Co.	366,609	767,358	25,841	734,303	910		1,553,687		339,514
Shell Pipeline Co.	3,993	266,880			8			267,905	2,960
	370,602	1,034,238	25,841	734,303	918		1,553,687	267,905	342,474
CANAL—Rock Island Oil & Ref. Co.			18,839				18,839		
CAT CREEK—									
Continental Pipeline Co.		10,121				10,121			
Truck			1,789			1,789			
		10,121	1,789			11,910			
CLARK'S FORK—Permian Corp.			186				186		
COW CREEK—West. Crude Oil Corp.			4,003				4,003		
CULBERTSON—Spruce Oil Co.			2,373				2,373		
CUT BANK—									
Continental Pipeline Co.			10,858	239,281				250,139	
Phillips Petroleum Co.	76,913	169,164		19,350	1,274	94,651		70,521	98,981
Texas Pipeline Co.	14,735	66,351		68,829	175	138,295			11,445
Union Oil Co.	72,962	70,628		29,799	5,614	102,219			65,556
Western Oil Trans. Co.		63,600						63,600	
Western Oil Trans. Co. (Moulton)		100,188						100,188	
	164,610	469,931	10,858	357,259	7,063	335,165		484,448	175,982
DELPHIA—Truck			406			406			
DWYER—Portal Pipeline Co.		26,675					26,675		
ELK BASIN & ELK BASIN NORTHWEST—									
Marathon Pipeline Co.		171,702				171,702			
FAIRVIEW—Fairview Pipeline Co.		46,864					46,864		
FLAT COULEE—									
Camerland Cardinal Corp.		7,566				7,566			
FLAT LAKE & FLAT LAKE SOUTH—Portal Pipeline Co.		65,128					65,128		
FRANNIE—Interstate Pipeline Co.		600					600		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	17,047	38,207				22,838		17,737	14,679
GAGE—Truck			98			98			
GIRARD—Rock Island Oil & Ref. Co			5,114				5,114		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipeline Co.	7,487	31,656			(670)			29,592	10,221
GOOSE LAKE—									
Portal Pipeline Co.		36,346					36,346		
HAY CREEK—									
Fairview Pipeline Co.		11,269					11,269		
HIAWATHA—									
Continental Pipeline Co.		9,416					9,416		
HIBBARD—Truck			205			205			
IVANHOE—									
Continental Pipeline Co.		4,788				4,636	152		
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		17,685				16,693	992		
KELLEY—									
Continental Pipeline Co.		4,105				4,105			
KEVIN SUNBURST—									
Big West Oil Co.	6,060	15,500				15,500			6,060
Homestake Oil & Gas Co.	2,727	2,135							4,862
Texas Pipeline Co.	6,979	7,213			78			7,125	6,989
	15,766	24,848			78	15,500		7,125	17,911
LEARY—Permian Corp.			1,224				1,224		
LODGE GRASS—Permian Corp.			458			458			
MASON LAKE—									
Continental Pipeline Co.		335				335			
MELSTONE—									
Continental Pipeline Co.		1,768				1,358	410		
MOSSER—Truck			567				567		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		20,096					20,096		
PONDERA—Phillips Petr. Co.	46,695	25,303			4,298	55,729			11,971
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE, RICHEY, TULE CREEK, TULE CREEK SOUTH AND VOLT—									
East Poplar Gathering System	13,957	88,580			523			93,921‡	8,093
RAGGED POINT—									
Continental Pipeline Co.		6,129				6,129			
RED CREEK—									
Western Oil Transportation Co.		18,156						18,156	
RESERVE—Portal Pipeline Co.		10,720					10,720		
RUSH MOUNTAIN—									
Sinclair Refining Co.		2,529					2,529		
SHOTGUN CREEK—Truck			494				494		
SIDNEY—Truck			450					450	
SNYDER—Permian Corp.			346			346			
SOAP CREEK—Permian Corp.			3,093				3,093		
SPRING LAKE—									
Rock Island Oil. & Ref. Co.			2,050				2,050		
SUMATRA & STENSVAD—									
Continental Pipeline Co.	555,418	69,864		2,026,827	(5,418)	55,982		1,878,458	723,087
TULE CREEK—									
Spruce Oil Corp.	10,675		39,914			48,727			1,862
Permian Corp.			3,540			3,540			
	10,675		43,454			52,267			1,862
WEED CREEK—									
Continental Pipeline Co.		2,779				2,779			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.		10,872				10,872			
WOLF SPRINGS—									
Continental Pipeline Co.		6,106				6,106			
WILDCAT WELLS—Truck			107,780				107,780		
TOTALS	1,259,338	2,858,010	270,615	3,118,389	6,792	805,150	2,238,877	3,082,443	1,373,090

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Little Beaver East, Lookout Butte, Monarch, Pennel, Pine, Repeat, Richey, Richey Southwest, Weldon & Wills Creek South.

‡Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF NOVEMBER, 1970

Field	Big West Oil Co	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Spruce Oil Co.	Union Oil Co.	Total
Big Wall	.....	9,609	.....	.....	.....	.....	.....	.....	.....	9,609
Bowes	.....	.....	9,000	.....	.....	.....	.....	.....	.....	9,000
Cat Creek	.....	1,959	.....	11,447	.....	515	.....	.....	.....	13,921
Cut Bank	110,776	.....	.....	.....	.....	.....	109,600	.....	114,799	335,175
Delphia	.....	.....	.....	.....	.....	97	.....	.....	.....	97
Elk Basin	.....	68,002	.....	44,000	59,700	.....	.....	.....	.....	171,702
Flat Coulee	.....	.....	.....	.....	.....	.....	.....	.....	7,566	7,566
Fred & George Creek	22,838	.....	.....	.....	.....	.....	.....	.....	.....	22,838
Gage & Gage Southwest	.....	.....	.....	.....	.....	33	.....	.....	.....	33
Hibbard	.....	.....	.....	.....	.....	71	.....	.....	.....	71
Ivanhoe	.....	4,636	.....	.....	.....	.....	.....	.....	.....	4,636
Keg Coulee	.....	2,892	.....	12,977	.....	.....	.....	.....	.....	15,869
Kelley	.....	.....	.....	.....	4,105	.....	.....	.....	.....	4,105
Kevin Sunburst	15,500	.....	.....	.....	.....	.....	.....	.....	.....	15,500
Lodge Grass	.....	458	.....	.....	.....	.....	.....	.....	.....	458
Mason Lake	.....	335	.....	.....	.....	.....	.....	.....	.....	335
Melstone	.....	.....	.....	1,358	.....	.....	.....	.....	.....	1,358
Pondera	.....	.....	.....	.....	.....	.....	30,933	.....	.....	30,933
Ragged Point	.....	.....	.....	6,129	.....	.....	.....	.....	.....	6,129
Sand Creek	.....	.....	.....	.....	.....	26	.....	.....	.....	26
Snyder	.....	346	.....	.....	.....	.....	.....	.....	.....	346
Sumatra & Stensvad	.....	9,109	.....	46,870	14,000	.....	.....	.....	.....	69,979
Tule Creek	.....	.....	.....	.....	.....	.....	.....	76,061	.....	76,061
Weed Creek	.....	.....	.....	.....	2,779	.....	.....	.....	.....	2,779
Whitlash	.....	.....	.....	.....	.....	.....	11,647	.....	.....	11,647
Wolf Springs	.....	.....	.....	.....	6,106	.....	.....	.....	.....	6,106
Total Montana Oil	149,114	97,346	9,000	122,781	86,690	742	152,180	76,061	122,365	816,279
Canadian Oil Imported	.....	207,042	.....	228,092	250,000	.....	.....	.....	.....	685,134
Wyoming Oil Imported	.....	760,210	.....	433,427	908,810	.....	.....	.....	.....	2,102,447
Total Montana, Canadian, and Wyoming Oil	149,114	1,064,598	9,000	784,300	1,245,500	742	152,180	76,061	122,365	3,603,860

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1969	25,966	13,237	71,981	111,184
November, 1969	25,027	17,739	76,007	118,773
November, 1970	27,209	22,838	70,081	120,128

PERCENTAGE OF CRDUE OIL REFINED

Montana	Canada	Wyoming
23.35%	11.91%	64.74%
21.07%	14.94%	63.99%
22.65%	19.01%	58.34%